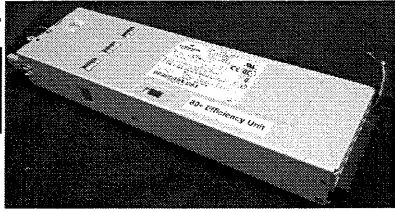
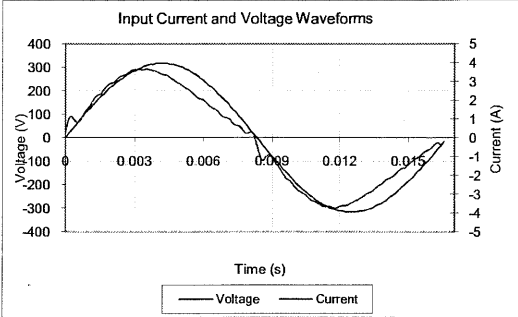


80 PLUS Verification and Testing Report

TYPICAL EFFICIENCY (50% Load):	92.01%
AVERAGE EFFICIENCY :	90.55%
80 PLUS COMPLIANT:	YES



Ecos ID #	SO-267
Manufacturer	ASTEC INTERNATIONAL LIMITED - PHILIPPINE
Model Number	DS1050-3
Serial Number	I096HN000A0EP
Year	2011
Type	1U
Test Date	5/29/2011



Input AC Current Waveform (ITHD = 9.83%, 50% Load)

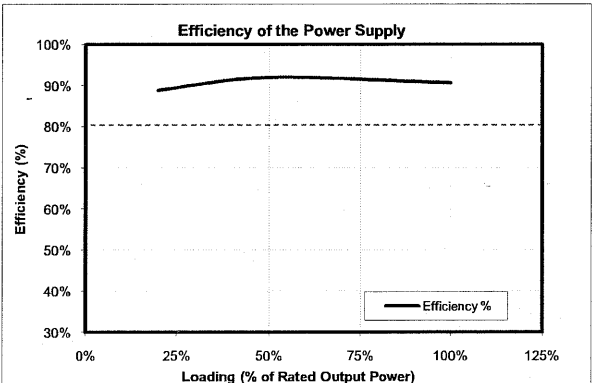
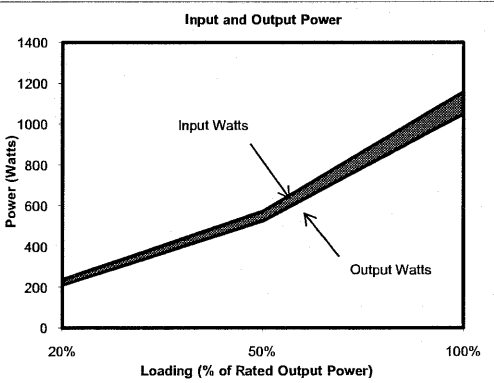
Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	14.5	Amps
Input Frequency	50/60	Hz
Rated Output Power	1,050	Watts

Note: All measurements were taken with input voltage at 230 V nominal and 60 Hz

I _{RMS} A	PF	I _{THD} (%)	Load (%)	Fraction of Load	Input Watts	External Fan (W)**	DC Terminal Voltage (V)/ DC Load Current (A)		Output Watts	Efficiency %
							12V	3.3Vsb		
0.64	0.86	36.97	*10%	Low	127	2.64	12.05/8.68	3.34/0.3	106	83.22%
1.08	0.95	14.77	20%	Light	237	2.64	12.04/17.34	3.34/0.6	211	88.93%
2.53	0.98	9.83	50%	Typical	572	4.44	12.03/43.34	3.33/1.49	527	92.01%
5.08	0.99	7.14	100%	Full	1159	7.92	12.01/86.68	3.31/2.99	1051	90.70%

* 10% load results are for informative purposes only and not included in certification requirements.

** Fan power is not included in the efficiency calculations



These tests were conducted by a third party independent testing firm on behalf of the 80 PLUS Program. 80 PLUS is a certification program to promote highly-efficient power supplies (greater than 80% efficiency in the active mode) in technology applications. <http://www.80plus.org/>

